

ALEXANDER YEARA

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WORK EXPERIENCE

Software Engineer II, Security Microsoft August 2021 - Present

Product: Microsoft Whiteboard

- Led the development of STRIDE threat models and conducted security reviews for Microsoft Whiteboard's core features, thereby ensuring successful compliance with O365 security requirements
- Introduced and monitored SAST tooling for PR builds, enhancing vulnerability prevention
- Identified and mitigated multiple security flaws, such as improper access controls and Cross-Site Scripting vulnerabilities
- Enhanced documentation on threat modeling best practices and compliant feature development life cycles; delivered a presentation to approximately 40 colleagues
- Conducted weekly security triage and performed incident investigations arising from Microsoft's bug bounty program

Front-End Software Engineer, Security AudienceView November 2019 - August 2021

Product: AudienceView Unlimited

- Led application security initiatives, ensuring successful PCI DSS compliance
- Engaged with external penetration testers to triage vulnerabilities, using CVSS for backlog creation
- Identified and mitigated roughly 60% of OWASP Top 10 vulnerabilities via white-box penetration tests and code reviews
- Introduced OWASP ZAP tool for static and dynamic analysis, improving vulnerability detection
- Produced comprehensive documentation on secure coding standards for HTML, JavaScript, ASP and C++ development
- Developed a Slack-integrated vulnerability scanner for third-party dependencies using Python; improved alerting and remediation efforts

Undergraduate Teaching Assistant University of Toronto January 2019 - December 2019

- Taught Introduction to Programming, Introduction to Computer Science, and Theory of Computation to a class size of 40
- Formulated problems for tutorial sessions, assignments, and examinations

IT Support Analyst | Software Developer StrataPrime May 2018 - August 2018

Product: Availability Tracker

- Performed IT hardware setups, implemented security configurations, and onboarded clients to the Google Cloud
- Solely developed a web application using JavaScript and Cloud SQL that allows managers to track IT support service availability within Google Workspace; utilized Google Cloud Platform for deployment

SOFTWARE PROJECTS

- **Graphics Editor:** Led a team of five students in developing a Java program, implementing the base architecture using design patterns and object-oriented programming
- **2D Web Shooter Game:** Led the agile development of a multiplayer browser game by designing the architecture and implementing gameplay physics; achieved a perfect score of 100% in the course due to exceptional leadership
- **Multiplayer Card Game:** Solely developed an online multiplayer card game with authentication, matchmaking, and real-time gameplay using React, MongoDB, Node.js, Express, and Socket.IO

EDUCATION

Mississauga, CA University of Toronto November 2019

- **Degree:** Honours Bachelor of Science in Computer Science, Mathematics, and Chemistry
- **Relevant Coursework:** Information Security, Software Design, Systems Programming, Algorithms & Data Structures, Software Engineering, Web Engineering
- **Security Certifications:** Certified Bug Bounty Hunter (Hack The Box), Security Engineer (TryHackMe), Burp Suite Certified Practitioner (PortSwigger)

TECHNICAL SKILLS

- **Security Tools, Standards and Methodologies:** Burp Suite, OWASP ZAP, Microsoft Threat Modeling Tool, STRIDE, Wireshark, Metasploit, SQLMap, Nessus, CodeQL, Hashcat, Nmap, Hydra, Nikto, CVSS, SAST, DAST, PCI DSS
- **Languages:** Java, Python, Bash, JavaScript (ES6), TypeScript, HTML, CSS, ASP Classic, C#, MQL, SQL, KQL, Sass, UML
- **Frameworks and Libraries:** React, Jest, Bootstrap, jQuery, Node.js, Express, Socket.IO, Flask, AngularJS, JUnit
- **Databases:** MongoDB, PostgreSQL, SQLite, MySQL, Cloud SQL
- **Cloud Services:** Microsoft Azure, Google Cloud, AWS
- **Development Tools and Methodologies:** Git, Agile, Scrum, Jira, Kanban, Jenkins, npm
- **Certifications:** CBBH, BSCP